

ABSTRACT

The present invention relates to novel fusion proteins comprising a bacteriophage coat protein and a single-chain T cell receptor and uses of such complexes. In one aspect, the invention relates to soluble fusion protein comprising a bacteriophage coat protein covalently linked to a single-chain T cell receptor which comprises a V-alpha chain covalently linked to a V-beta chain by a peptide linker sequence. The soluble fusion proteins of the invention are useful for a variety of applications including: 1) making a bacteriophage library for displaying single-chain T cell receptors for use in screens for identification and isolation of ligands that bind single-chain T cell receptors, and 2) methods for isolating soluble and fully functional single-chain T cell receptors from the fusion proteins.

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